

**3GPP TSG CN Plenary Meeting #23**  
**10th - 12th March 2004. Phoenix, USA.**

**NP-040034**

Source: CN1  
Agenda item: 9.1  
Document for: Approval

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**3GPP TSG-CN1 Meeting #33**  
**Atlanta, Georgia, USA 16 – 20 February 2004**

**Tdoc N1-040502**

Source: Lucent Technologies  
Title: WID: Revised IMS2 Work Item  
Agenda item: 4  
Document for: APPROVAL

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**3GPP TSG CN Plenary Meeting #21**  
**17th - 19th September 2003. Frankfurt, Germany.**

**NP-030421**

Source: TSG CN WG 1  
Agenda item: 9.1  
Document for: APPROVAL

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**3GPP TSG-CN1 Meeting #31**  
**Sophia-Antipolis, France, 25 – 29 August 2003**

**Tdoc N1-031336**

*was NP-030286, N1-031126, N1-031290, N1-031307, N1-031331*

Source: Nokia  
Title: Revised IMS2 Work Item  
Agenda item: 8.3  
Document for: APPROVAL

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## **Introduction**

The IMS2 Work Item is revised in order

- to introduce the new TS numbers for conferencing and messaging; and
- to update the dates at which the documents are presented for information and for approval to the plenary.

## **Work Item Description**

## Title

IMS Stage-3 Enhancements

### 1 3GPP Work Area

	Radio Access
X	Core Network
	Services

### 2 Linked work items

Stage-2 of IMS Phase 2 (32027)  
Emergency Call Enhancements for IP & PS Based Calls – stage 3 (32045)  
Interworking between IMS and CS networks (2047)  
Interworking between IMS and IP networks (2048)  
Interoperability and Commonality between IP Multimedia Systems using different "IP-connectivity Networks" (11032)

### 3 Justification

In Release 5, the IMS was defined to support IP Multimedia services. The feature set in Release 5 provides a basis for IP Multimedia support. For some capabilities already identified, Stage 2 was not completed as part of Release 5 and the need for other new capabilities is being identified.

### 4 Objective

The objectives of this work item are to finalise Stage 3 work on postponed Release 5 features and to refine and further develop support of the IP Multimedia services in a wireless network. The areas to be considered are:

1. IM CN subsystem local services  
This item is to provide any additional SIP and SDP (or other SIP message body) work that may be necessary to support access to services in the local serving IM CN subsystem.  
Note: It is not yet clear what work will be required in CN1 for this work item.
2. IM CN subsystem Group management  
This item is to provide SIP and SDP (or other SIP message body) specification necessary to support the IM CN subsystem capabilities to facilitate group-enabled services (e.g., chat).
3. IM CN subsystem Conferencing  
This item is to provide any additional SIP and SDP (or other SIP message body) specification that may be necessary in support of conferencing services. Additionally this item is to provide data manipulation for conferencing (CPCP) in IMS.  
Note: There is ongoing work in IETF SIP and SIPPING groups that needs to be taken into account in conjunction with this area.
4. IM CN subsystem Messaging  
This item is to provide the SIP and SDP (or other SIP message body) support necessary to support the capabilities required for messaging services in the IM CN subsystem being defined by SA1.  
Note: This is subject to a feasibility study at stage 1, and work in this area should not commence until that stage 1 work has determined that this work area should proceed.
5. Additional SIP Capabilities Support  
This item is to provide any SIP and SDP (or other SIP message body) specification necessary to support desired SIP capabilities that are not covered in Release 5 (e.g., forking).  
Note: This work area needs to explicitly identify enhancements before they can be included in the expected output

and timescale table.

6. End-to-end aspects for interworking with other IP networks

This item is to provide any SIP and SDP (or other SIP message body) specification necessary to support interworking with other IP networks. This may include changes to preconditions requirements, and other material to support interworking with Ipv4 networks

These are based on stage 2 work performed under work item: "IMS Stage-2 Enhancements"

Additionally the following stage 3 specific area is covered by this work item:

~~6-7.~~ Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM CN subsystem or not

In addition to the existing interfaces on IMS some of the listed areas e.g. conferencing, require work on data manipulation related signalling via the Ut interface.

**5 Service Aspects**

None. Service aspects are covered by other work item descriptions.

**6 MMI-Aspects**

None. MMI Aspects are covered by other work item descriptions.

**7 Charging Aspects**

None. Charging Aspects are covered by other work item descriptions. Within release 5 there are protocol mechanism providing in support of charging, and these may require enhancement by work areas described by this work item.

**8 Security Aspects**

None. Security Aspects are covered by other work item descriptions. Within release 5 there are protocol mechanism providing in support of security, and these may require enhancement by work areas described by this work item.

**9 Impacts**

<b>Affects:</b>	<b>USIM</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>		X		X	
<b>No</b>			X		
<b>Don't know</b>	X				X

## Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TR 29.847	Conferencing based on SIP, SDP and other protocols, Functional Models, information flows and protocol details (Release 6)	CN1		CN#21 (September 2003)	CN# <del>25</del> <sup>3</sup> ( <del>March</del> September 2004)	Includes SIP and SDP specific conferencing procedures and call flows for UE, AS and CSCFs. Includes signalling for conferencing specific data manipulation over the Ut interface.
TS 24.147	Conferencing using the IM CN subsystem; Stage 3	CN1		CN#23 (March 2004)	CN# <del>25</del> <sup>4</sup> ( <del>June</del> September 2004)	Includes SIP and SDP specific conferencing procedures and call flows for UE and AS. Includes functional signalling for conferencing specific data manipulation over the Ut interface based on IETF solutions.
TS 24.247	Messaging service using the IM CN subsystem; Stage 3	CN1		CN#23 (March 2004)	CN# <del>25</del> <sup>4</sup> ( <del>June</del> September 2004)	Includes SIP specific messaging procedures and call flows for UE and AS.
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
23.218		Enhancements in support of IM CN subsystem local services		CN#24	Impact of work area to be evaluated	
24.228		Enhancements in support of IM CN subsystem local services		CN#24	Impact of work area to be evaluated	
24.229		Enhancements in support of IM CN subsystem local services		CN#24	Impact of work area to be evaluated	
23.218		Enhancements in support of IM CN subsystem Conferencing		CN# <del>25</del> <sup>4</sup>	Incorporation of IETF work, possibly after submission of 3GPP requirements to IETF	
24.228		Enhancements in support of IM CN subsystem Conferencing		CN# <del>25</del> <sup>4</sup>	Incorporation of IETF work, possibly after submission of 3GPP requirements to IETF	
24.229		Enhancements in support of IM CN subsystem Conferencing		CN# <del>25</del> <sup>4</sup>	Incorporation of IETF work, possibly after submission of 3GPP requirements to IETF Conferencing specific procedures at CSCFs (if applicable) Messaging specific procedures at CSCFs (if applicable)	
<del>23.218</del>		<del>Enhancements in support of PSS alignment to IM-CN subsystem</del>		<del>CN#24</del>	<del>Impact of work area to be evaluated</del>	

<a href="#">24.228</a>		<a href="#">Enhancements in support of PSS alignment to IM-CN subsystem</a>	CN#24	<a href="#">Impact of work-area to be evaluated</a>
<a href="#">24.229</a>		<a href="#">Enhancements in support of PSS alignment to IM-CN subsystem</a>	CN#24	<a href="#">Impact of work-area to be evaluated</a>
23.218		Enhancements in support of IM-CN subsystem Messaging	CN#24	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
24.228		Enhancements in support of IM-CN subsystem Messaging	CN#24	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
24.229		Enhancements in support of IM-CN subsystem Messaging	CN#24	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
<a href="#">23.218</a>		<a href="#">Enhancements in support of end-to-end aspects for interworking with other IP networks</a>	<a href="#">CN#25</a>	
<a href="#">24.228</a>		<a href="#">Enhancements in support of end-to-end aspects for interworking with other IP networks</a>	<a href="#">CN#25</a>	
<a href="#">24.229</a>		<a href="#">Enhancements in support of end-to-end aspects for interworking with other IP networks</a>	<a href="#">CN#25</a>	
23.218		Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM-CN subsystem or not	CN#25 <del>3</del>	Currently this includes session-timer, caller-preferences, referred-by
24.228		Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM-CN subsystem or not	CN#25 <del>3</del>	Currently this includes session-timer, caller-preferences, referred-by
24.229		Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM-CN subsystem or not	CN#25 <del>3</del>	Currently this includes session-timer, caller-preferences, referred-by

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**Work item rapporteurs**

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**Work item leadership**

CN1

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**Supporting Companies**

Lucent Technologies, Siemens, Qualcomm, Nokia

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**Classification of the WI (if known)**

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

IMS Phase 2 (unique id 32021)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)